

The listing of claims will replace all prior versions and listings of claims in the application:

**LISTING OF CLAIMS:**

**Claims 1-17 (withdrawn)**

18. **(currently amended)** A component for use in forming a printed wiring board, comprising:

a metal carrier substrate;

a separation facilitating layer formed on the metal carrier substrate;

a vapor-deposited layer of copper on the separation facilitating layer, wherein the vapor-deposited layer has a thickness in a range of 50Å to 10,000Å to protect[[s]] the separation facilitating layer; and

an electrodeposited layer of copper having a thickness in a range of 1 µm to 35 µm on the vapor-deposited layer of copper.

19. **(original)** A component according to claim 18, wherein said separation facilitating layer includes at least one metal oxide.

20. **(original)** A component according to claim 19, wherein said metal oxide is selected from the group consisting of: aluminum oxide, tin oxide, chromium oxide, nickel oxide, copper oxide, an oxide of stainless steel and zinc oxide.

21. **(original)** A component according to claim 18, wherein said separation facilitating layer includes at least one organic material.

22. **(original)** A component according to claim 21, wherein said separation facilitating layer includes at least one organic material selected from the group consisting of: silane, benzotriazole (BTA), and isopropyl alcohol.

23. **(currently amended)** A component according to claim 18, wherein said separation facilitating layer has a thickness in a range of 5Å to 1,000Å.

24. **(currently amended)** A component according to claim 18, wherein said metal carrier substrate is comprised of copper.

25. **(original)** A component according to claim 24, wherein said separation facilitating layer is a stabilization layer.

26. **(original)** A component according to claim 25, wherein said stabilization layer includes chromium oxide and zinc oxide.

27. **(currently amended)** A component according to claim 18, wherein said metal carrier substrate is ~~comprised of at least one metal~~ selected from the group consisting of: aluminum, tin, copper, chromium, nickel, stainless steel and plated carbon steel.

28. **(original)** A component according to claim 27, wherein said separation facilitating layer is a comprised of a natural occurring oxide of at least one metal comprising said carrier substrate.

29. **(original)** A component according to claim 18, wherein said separation facilitating layer is a stabilization layer.

30. **(currently amended)** A component according to claim [[1]] 18, wherein said vapor-deposited layer of copper is formed by one of physical vapor deposition, chemical vapor deposition and a combination thereof.

31. **(currently amended)** A component according to claim [[30]] 18, wherein said ~~vapor deposition includes vacuum deposition~~ -deposited layer of copper is formed by sputtering.

32. **(currently canceled)**

33. **(currently canceled)**

34. **(original)** A component according to claim 18, wherein said carrier substrate has a weight per unit area in a range of 0.5 oz/ft<sup>2</sup> to 3 oz/ft<sup>2</sup>.

35. **(currently amended)** A component according to claim [[1]] 18, wherein said vapor-deposited layer of copper is formed by a combustion chemical vapor deposition process.

36. **(new)** A component for use in forming a printed wiring board, comprising:  
a copper substrate;  
an inorganic separation facilitating layer formed on the copper substrate;  
a vapor-deposited layer of copper on the separation facilitating layer, wherein the vapor-deposited layer protects the separation facilitating layer; and  
an electrodeposited layer of copper on the vapor-deposited layer.

37. **(new)** A component according to claim 36, wherein said inorganic separation facilitating layer includes at least one metal oxide.

38. **(new)** A component according to claim 37, wherein said metal oxide is selected from the group consisting of: tin oxide, chromium oxide, nickel oxide, copper oxide, an oxide of stainless steel and zinc oxide.

39. **(new)** A component according to claim 38, wherein said inorganic separation facilitating layer has a thickness in a range of 5 Å to 1,000 Å.

40. **(new)** A component according to claim 39, wherein said stabilization layer includes chromium oxide and zinc oxide.

41. (new) A component according to claim 38, wherein said electrodeposited layer of copper has a thickness in a range of 1  $\mu\text{m}$  to 35  $\mu\text{m}$ .

42. (new) A component according to claim 38, wherein said carrier substrate has a weight per unit area in a range of 0.5 oz/ft<sup>2</sup> to 3 oz/ft<sup>2</sup>.

43. (new) A component for use in forming a printed wiring board, comprising:  
a metal carrier substrate;  
a separation facilitating layer formed of a metallic oxide on the metal carrier substrate, said separation facilitating layer having a thickness in a range of 5  $\text{\AA}$  to 1,000  $\text{\AA}$ ;  
a vapor-deposited layer of copper on the separation facilitating layer, wherein the vapor-deposited layer protects the separation facilitating layer; and  
an electrodeposited layer of copper on the vapor-deposited layer.

44. (new) A component according to claim 43, wherein said metal oxide is selected from the group consisting of: tin oxide, chromium oxide, nickel oxide, copper oxide, an oxide of stainless steel and zinc oxide.

45. (new) A component according to claim 44, wherein said carrier substrate is comprised of copper.

46. (new) A component according to claim 45, wherein said stabilization layer includes chromium oxide and zinc oxide.

47. (new) A component according to claim 45, wherein said electrodeposited layer of copper has a thickness in a range of 1  $\mu\text{m}$  to 35  $\mu\text{m}$ .

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RESPONSE TO OFFICE ACTION dated August 14, 2003

48. (new) A component according to claim 45, wherein said carrier substrate has a weight per unit area in a range of 0.5 oz/ft<sup>2</sup> to 3 oz/ft<sup>2</sup>.